

# WISCONSIN DNR Environmental Management Systems (EMS) Implementation

## **Air Foundry (BRAT Co.) Project**

Hazardous Air Pollutant  
Technical Advisory Group (TAG)  
Meeting

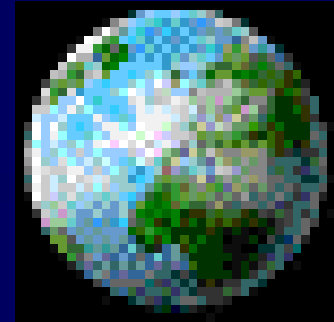
October 4, 2001

# SESSION OVERVIEW

- WHY AN EMS?
- WHAT'S AN EMS?
- EMS IMPLEMENTATION
- AIR/FOUNDRY PROJECT

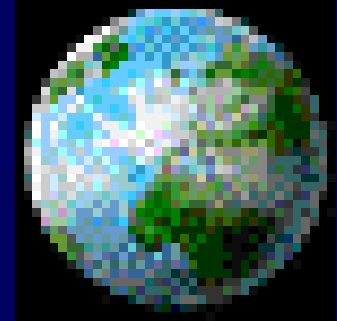


## WHY AN EMS?



- Current regulations have a limit to decreasing pollution
- Importance of environmental management systems to Industry
- Wisconsin's continued environmental leadership

## WHAT'S AN EMS?



- A continual cycle of planning, implementing, reviewing and improving the actions that the organization takes to meet its environmental obligations

# EMS Purpose

Provide a system for

*SAY what you'll do*

- Management actions
- Operating procedures
- Documentation and record keeping
- Organizational structure
- Resources

*DO it*

*DEMONSTRATE that  
you did it*

# EMS and ISO 14001

- EMS is the management system
- ISO 14001 is a voluntary standard developed by the International Organization for Standardization
- ISO 14001 standard provides the framework for the EMS

# The EMS Framework



Section 1: Understanding the EMS

# DNR'S VISION FOR INNOVATION

- Bavarian Agreement
- Netherlands Partnership
- Cooperative Agreements
- Green Tier
- WDNR EMS
- Governor's Agricultural Stewardship



# EMS IMPLEMENTATION GOALS:

## 1. Center for Performance-Based Regulations

- Models transparency (“come and see”)
- Establishes environmental performance level for Wisconsin
- Integrates enforcement with regulatory innovation
- Builds skills to evaluate EMS quality

# OTHER IMPLEMENTATION GOALS:

2. Improve environmental performance of  
*public policy and regulation*
3. Improve environmental performance of  
*operations*
4. Management of *government* supply chain

# PHASED IMPLEMENTATION

- Agency-wide by April 2007
- Four 2-year phases
- First phase:
  - Spooner Campus
  - Lake Kegonsa Park
  - Air and Foundry
  - Waste Management
- First + phase:
  - Wild Rose Fish Hatchery



# AIR/FOUNDRY PARTNERSHIP



- Best Practices for:
  - regulating toxics and preventing benzene emissions
  - partnership
  - informing the public

# BRAT Company

(Benzene Reduction Action Team)

- WI DNR and WCMA
- Equal partners
- Industry Members:
- Grede, Metal-Technologies, Neenah, and Waupaca Foundries



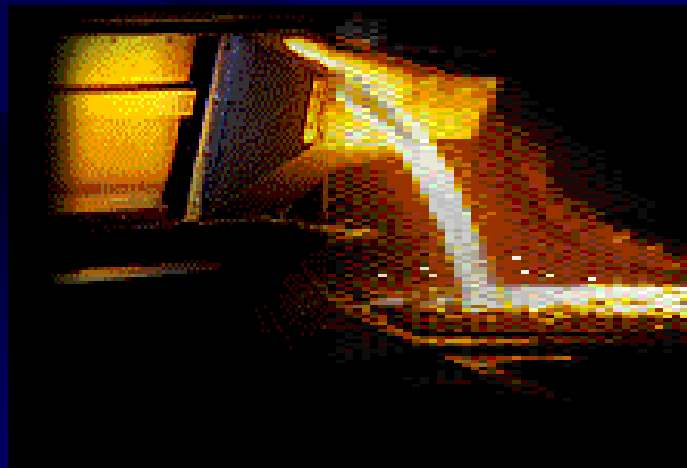
# WI DNR and WCMA Memorandum of Agreement

- Structures and guides the working partnership
- Does not supplant any existing laws or regulations
- Three key principles: Innovation, Stakeholder Involvement, Measurements and Environmental Performance



# FOUNDRY BENZENE EMISSIONS

- By-product of incomplete combustion
- Emission control inefficient
- Control within casting process



# AIR/FOUNDRY OBJECTIVES

- **Casting**

- Reduce benzene emissions from foundries by 30% from 1999 emissions
  - Beyond LAER Variance or BACT Levels
- Study changes to casting process
  - mold sand life cycle and core making processes
- Provide education for foundries and government agencies on current benzene reduction strategies
- Monitor and track changes to air quality from foundry process changes



# AIR/FOUNDRY OBJECTIVES

- **Permitting**

- Study how a foundry with existing EMS can use EMS to demonstrate NR 445 compliance
- Study existing permitting process to make more efficient and effective progress to reducing benzene emissions
  - Build upon past and tie to current permit efficiency efforts
- Study effectiveness of innovative regulatory options and permit efficiency efforts

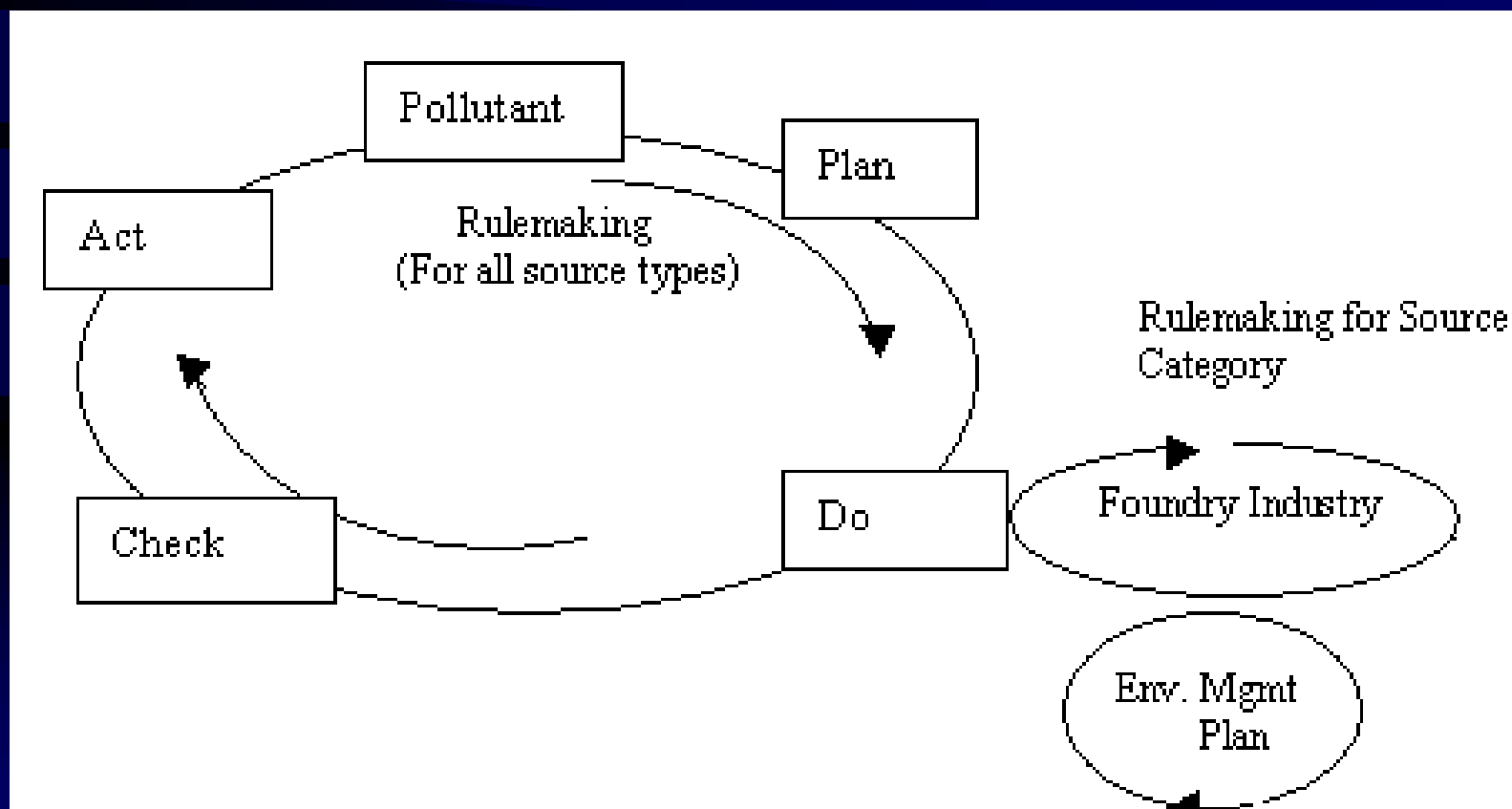
# AIR/FOUNDRY OBJECTIVES

- **Rulemaking**

- Study how Air Management can promote and support innovative approaches to reducing HAPs with focus on benzene for foundry industry
- Propose language for NR 445 rule change to allow alternative or EMS approaches to reducing benzene emissions
- Use EMS elements to evaluate alternative rulemaking processes starting in July 2002
- Look at a pollutant that is not currently regulated under NR 445

# AIR/FOUNDRY OBJECTIVES

- **Rulemaking**
  - Use EMS elements to evaluate alternatives to rulemaking processes



# Other Work

- Secure website
  - share information and work products with foundry partners
- Stakeholder involvement - Increasing communication
  - Grede Foundry - Reedsburg
- Memorandum of Agreement - WDNR and WCMA

# For More Information

- Visit our EMS website:  
[www.dnr.state.wi.us/org/secretary/ems](http://www.dnr.state.wi.us/org/secretary/ems)
- Contact Sue Hoops at (608)266-7653 or  
[hoopss@dnr.state.wi.us](mailto:hoopss@dnr.state.wi.us)
- Contact Information for Pilot Site leaders  
available on website
  - Air Foundry Project Contacts: Patrick Kirsop  
608/266-2060 or Jeff Loeffler 715/258-6611